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CHAL - 0045

Copy 1 of 5

2 May 1958

MEMORANDUM TO: Deputy Project Director

25X1A SUBJECT : 25X1A 1. The following information was elicited from this date. As pertains to the J-57/P31 Engine:T.O. 35,000 70,000

A. Specific Fuel Consumption	1.06	.98	1.13
B. Mass Air Flow	234#/sec	75#/sec	13#/sec
C. Thrust	10,500	3750	685
D. Compression Ratio	13:1	13:1	13:1
E. Engine Basic Weight	3700	3700	3700
F. Fuel Consumption and Thrust at Designated Altitudes:			

(1) Sea Level

~~10,500~~
a. ~~10,500~~ Thrust
b. 1.06 Fuel Consumption

(2) 15,000 Feet

a. 7,000 Thrust
b. 1.015 Fuel Consumption

(3) 25,000 Feet

a. 5350 Thrust
b. 1.00 Fuel Consumption

(4) 35,000 Feet

a. 3750 Thrust
b. .98 Fuel Consumption

G. Turbine Inlet Temperature

(1) Take Off - 1670°F
(2) 35,000 Feet - 1670°F
(3) 70,000 Feet - 1670°F

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CHAL - 0045

Page two of two

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